

## Message Text

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ORIGIN OES-07

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FM SECSTATE WASHDC  
TO AMEMBASSY BRASILIA

UNCLAS STATE 256296

E.O. 11652: N/A

TAGS: OCLR, TGEN, TBIO, BR

SUBJECT: R/V OREGON II CLEARANCE REQUEST

REF: BRASILIA 3327

1. INFORMATION REQUESTED IS PROVIDED PARA 2 IN ORDER LISTED REFTEL. SEFC REPORTS THAT CHIEF SCIENTIST, DR. DRAGOVICH HAS BEEN IN CONTACT WITH SUDEPE OFFICIALS TO SMOOTH OUT RESEARCH PLAN. ADDITIONALLY, A CHART INDICATING THE SHIP'S TRACK AND A SURVEY PLAN ARE BEING POUCHED.

2. A. SHRIMP SURVEY WILL BE CONDUCTED WITH 40-FOOT FLAT SHRIMP TRAWLS FABRICATED WITH 2-INCH STRETCHED MESH NO. 18 TREAD NYLON WEBBING AND 1 AND 3/4 MESH COD END. THE TRAWL WILL BE RIGGED WITH A 8' X 40" (OTTER) TRAWLS DOORS AND FITTED WITH FOOT ROPE LOOP CHAINS TICKLER CHAIN. TRAWL WRAP TO METER DEPTH RATIO WILL BE 3:1 TO 5:1, DEPENDING ON WATER DEPTH AND THE TOWING SPEED, WHICH  
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IS USUALLY 3 KNOTS.

B. WE WILL TRY TO COLLECT 200 SPECIMENS OF EACH SPECIES OF SHRIMP AT EACH LOCATION AND FREEZE THE SAMPLE IMMEDIATELY UPON COLLECTION. THESE SAMPLES WILL BE USED

IN OUR BIOCHEMICAL STUDIES OF THE IDENTIFICATION OF

STOCKS BY THE EMPLOYMENT OF ELECTROPHORETIC METHODS -- THE LATTER WILL BE PERFORMED IN THE LABORATORY. THE DURATION OF TOWS WILL BE USUALLY 30 MINUTES. TAXONOMIC AND BIOLOGICAL OBSERVATIONS (MATURITY STAGES) OF THE SHRIMP WILL BE MADE AND RECORDED. AFTER THE TOTAL CATCH HAS BEEN WEIGHED FOR THE QUANTITATIVE DETERMINATION OF THE BIOMASS THE ASSOCIATED INVERTEBRATE AND FISH FAUNA WILL BE IDENTIFIED, SAMPLED AND THE UNUSED PORTION OF THE SAMPLE WILL BE DISCARDED, OVERBOARD.

C. WATER TEMPERATURE WILL BE DETERMINED FROM SURFACE AND NEAR THE BOTTOM BY USING NISKIN SAMPLING BOTTLE AND A CELSIUS THERMOMETER. WATER SAMPLES FOR SALINITY DETERMINATION (BY REFRACTOMETER ABOARD R/V OREGON II AND BY FILTRATION METHOD IN THE LABORATORY IN MIAMI) WILL BE ALSO COLLECTED FROM SURFACE AND THE BOTTOM. SECHI DISC READINGS WILL BE ALSO MADE AT EACH SAMPLING SITE, AS A MEASURE OF TURBIDITY. ONE XBT CAST WILL BE MADE AT EACH SAMPLING LOCATION. AT SELECTED STATIONS SURFACE DRIFT CARDS WILL BE DISCARDED WITH THE PURPOSE OF STUDYING SURFACE CURRENTS. A SEDIMENT SAMPLE WILL BE COLLECTED WITH A GALVANIZED PIPE ATTACHED TO THE TRAWL NET. THE SEDIMENT SAMPLES WILL BE FROZEN AND ANALYZED IN THE LAB FOR PHYSICAL TEXTURE AND TOTAL ORGANIC MATTER.

D. BENTHIC FISH SURVEYS WILL BE CONDUCTED AS SHOWN IN UNCLASSIFIED

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THE TABLE 1 (BEING POUCHES). ALL FISHES WILL BE IDENTIFIED AND RECORDED. ASSOCIATED ECOLOGIC OBSERVATIONS WILL BE THE SAME AS IN SHRIMP SURVEY AND ASSOCIATED BOTTOM TOPOGRAPHY WILL BE STUDIED FROM THE RECORDS OF OUR DEPTH RECORDERS.

E. NAVIGATION USED ON R/V OREGON II IS CELESTIAL FIXES, RADIO DIRECTION FINDINGS, RADAR FIXES AND LORAN.

F. WE PROMISE THAT WE WILL FURNISH RESEARCH RESULTS TO THE BRAZILIAN NAVY MINISTRY'S DIRECTORATE OF HYDROGRAPHY AND NAVIGATOR (ITEM XIV).

G. WE PROMISE THAT WE WILL FURNISH THE MINISTRY OF MINES AND ENERGY WITH ANY GEOPHYSICAL DATA REFLECTING MINERAL RESOURCES OBTAINED DURING OUR RESEARCH CRUISE (ITEM V).

H. TO CONFORM WITH THE SPIRIT OF OUR SCIENTIFIC MEETING OF 3/28 - 4/1/77 AND SHRIMP AGREEMENT OF 5/1/77 OUR LATEST REVISION OF CRUISE PLAN INCLUDES 17 DAYS OFF BRAZIL AND 15 DAYS OF THESE TO BE DEVOTED TO THE BENTHIC

SURVEY OF FISHES (SEE TABLE 1). DURING THIS CRUISE  
SUDEPE PERSONNEL ABOARD R/V OREGON II WILL HAVE EVERY  
OPPORTUNITY TO LEARN OUR METHODS EMPLOYED DURING THIS  
SURVEY. VANCE

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